

IN THE CLAIMS

1. (Currently Amended) A process for ~~producing polyurethane foams~~decreasing the content of primary and/or second amines in a polyurethane foam comprising reacting isocyanates with compounds which are reactive toward isocyanates in the presence of blowing agents and in the presence or absence of catalysts, additives and/or auxiliaries, wherein the reaction forms the polyurethane foam having urethane and/or urea bonds and wherein the reaction is carried out in the presence of at least one compound (i) which has unsaturated functionality and is selected from the group consisting of crotonic acid, hydroxyethyl acrylate, 3-(acryloyl-oxy)-2-hydroxypropyl methacrylate, benzyl cinnamate, trans-3-nonen-2-one, and combinations thereof, wherein the at least one compound (i) is used in an amount of from 0.1 to 20% by weight based on the weight of the polyurethane foam, and wherein the unsaturated functionality of ~~at least 0.1% by weight~~substantially all of compound (i) ~~based on the weight of the polyurethane foam~~ is either:

- 1) reacted with a primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in the polyurethane foam, or
- 2) unreacted and available for reaction with a primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in the polyurethane foam;

provided that at least a portion of the unsaturated functionality of compound (i) is reacted with a primary and/or secondary amine.

Claims 2-3 (Cancelled).

4. (Currently Amended) A process as claimed in claim 1, wherein compound (i) is used in an amount of from 0.5 to 10% by weight, based on the weight of the polyurethane foam, and wherein the unsaturated functionality of ~~at least 0.5% by weight~~substantially all of compound (i) ~~based on the weight of the polyurethane foam~~ is either:

- 1) reacted with a primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in the polyurethane foam, or

2) unreacted and available for reaction with a primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in the polyurethane foam;

provided that at least a portion of the unsaturated functionality of compound (i) is reacted with a primary and/or secondary amine.

5. (Cancelled).

6. (Currently Amended) A polyurethane foam comprising;
urethane and/or urea bonds, and

products of the reaction of primary and/or secondary amines formed from cleavage of a urethane and/or urea bond in the polyurethane foam with at least one compound (i) which has unsaturated functionality and is selected from the group consisting of: crotonic acid, hydroxyethyl acrylate, 3-(acryloyl-oxy)-2-hydroxypropyl methacrylate, benzyl cinnamate, trans-3-nonen-2-one, and combinations thereof, wherein said at least one compound (i) is used in an amount of from 0.1 to 20% by weight based on the weight of said polyurethane foam, and wherein said unsaturated functionality of at least 0.1% by weight substantially all of compound (i) is either:

1) reacted with the primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in said polyurethane foam, or

2) unreacted and available for reaction with a primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in said polyurethane foam;

provided that at least a portion of the unsaturated functionality of compound (i) is reacted with a primary and/or secondary amine.

Claims 7-8. (Cancelled).

9. (Previously Presented) An article selected from the group of upholstery, a foam backing for carpets, a mattress, a foam backing for an instrument panel, a

steering wheel, a shoe sole, and combinations thereof formed from said polyurethane foam as set forth in claim 6.

10. (Currently Amended) A polyurethane foam as set forth in claim 6 wherein said at least one compound (i) is used in an amount of from 0.5 to 10% by weight based on the weight of said polyurethane foam, and wherein said unsaturated functionality of ~~at least 0.5% by weight substantially all of compound (i) based on the weight of the polyurethane foam~~ is either:

1) reacted with a primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in said polyurethane foam, or

2) unreacted and available for reaction with a primary and/or secondary amine formed from cleavage of a urethane and/or urea bond in said polyurethane foam;

provided that at least a portion of the unsaturated functionality of compound (i) is 1 reacted with a primary and/or secondary amine.

Please add the following new claims.

11. (New) A process as set forth in claim 1 further comprising the step of reacting primary and/or secondary amines formed from cleavage of a urethane and/or urea bond in the polyurethane foam with unsaturated functionality of compound (i) at a temperature of from 70 to 120 °C.

12. (New) A process as set forth in claim 4 further comprising the step of reacting primary and/or secondary amines formed from cleavage of a urethane and/or urea bond in the polyurethane foam with unsaturated functionality of compound (i) at a temperature of from 70 to 120 °C.